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JAMAICA.

NOVEMBER 21, 1890.

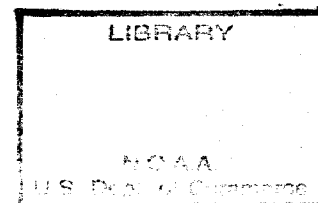
No. 125.

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# WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1890,



QC  
987  
.J25  
W34  
1890  
[Oct.-Dec.]

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Published by Authority.

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J A M A I C A :  
GOVERNMENT PRINTING ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1890.

# **National Oceanic and Atmospheric Administration**

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## METEOROLOGICAL RESULTS FOR OCTOBER, 1890.

STATION.	ELEVATION.	MEANS FOR THE MONTH.									
		Pressure.		Temperature.		Dew-point.		Vapour.		Humidity.	
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.
	ft.	in.	in.	°	°	°	°	in.	in.		
Kingston	60	29.969	29.902	75.8	84.6	68.3	72.9	0.692	0.810	78	68
King's House	490	...	...	...	...	...	...	...	...	...	...
Castleton Gardens	580	...	...	71.0	80.0	65.6	74.8	0.630	0.863	83	84
Cinchona Plantation	4,907	...	...	62.7	66.6	54.2	57.9	0.421	0.480	74	74

STATION.	MEANS FOR THE MONTH.					EXTREMES FOR THE MONTH.					TOTAL RAINFALL.
	Temperature.			Wind.		Temperature.					
	Max.	Min.	Range.	From.	Miles daily.	Max.	Date.	Min.	Date.	Range.	
	°	°	°			°		°		°	inch.
Kingston ...	88.3	72.5	15.8	S.E.	52.1	92.5	7th	70.2	18th	22.3	2.41
King's House ...	...	...	...	...	...	...	...	...	...	...	...
Castleton Gardens ...	79.8	69.9	9.9	...	...	83.0	1st	66.0	3rd	17.0	8.59
Cinchona Plantation ...	71.2	69.1	12.1	...	...	73.0	9th*	53.0	3rd†	20.0	2.67

\* and 2 other days. † and 2 other days.

NOTE.—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°, that of Kingston being further reduced to the Sea-level. The Thermometers are similarly exposed at all the above Stations; their readings have all been corrected.

## BLUE MOUNTAIN PEAK.

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observer's Initials.
		Max.	Min.				
1890.		°	°	°	in.		
January 4th	2.15 p.m.	66	39	50.5	52.10	Misty, breeze N.E.	A. T.
February 2nd	3 p.m.	66	40	54	19.30	Fine and bright, calm.	B. S. G.
March 1st	3.15 p.m.	64	39	57	16.90	Fine, warm and calm.	B. S. G.
March 29th	3.45 p.m.	71	49.5	54	18.92	Fine, clear, light breeze.	B. S. G.
May 3rd	2.30 p.m.	67	38	56	19.40	Bright sun, clear	B. S. G.
May 31st	1.45 p.m.	66.5	45	60	4.10	Heavy rain, light wind.	B. S. G.
June 24th	3.00 p.m.	63.0	45.5	56	2.90	Cloudy on all sides but warm.	B. S. G.
July 17th	12 Noon	62	43	55	5.00	Cloudy and little rain.	W. F.
August 2nd	2.45 p.m.	65	45	54	1.68	Fine, light breeze.	B. S. G.
October 5th	3.10 p.m.	72	46	55	5.00	Light breeze, clear and bright.	B. S. G.
October 26th	3.10 p.m.	74	45.5	70	3.44	Warm and cloudy.	W. B.
October 29th	2.30 p.m.	70.5	46.5	61	...	Bright and clear, no sun.	B. S. G.

## THE HEALTH OF KINGSTON.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the month for a few years past:—

OCTOBER.			
1890.   Average.			
Infantile diseases not otherwise specified	...	19	11
Lung diseases	...	20	13
Fever	...	9	5
Dysentery and Diarrhoea	...	9	2
Various	...	34	39
Total	...	91	70

## RAINFALL FOR OCTOBER, 1890.

The first columns contain all the Rainfall Returns sent in for publication up to the date of this report; the second columns contain the corresponding average Rainfall according to the Tables published in October, 1883, as Nos. 31 and 33 of the present series of Reports, and to an unpublished Supplementary Table of the average Rainfall at certain places where gauges have been registered for at least five years. In obtaining the mean Rainfall for the month from the numbers in the first columns, only those Stations are considered for which the average Rainfall has been given in the second columns; so that the results of these two columns are directly comparable. These results are more clearly shown in the Comparative Table at the end of these Rainfall Returns:—

## NORTH-EASTERN DIVISION.

OCTOBER.

		1890.   Average.	
		In.	In.
Morant Point L. H.	St. Thomas	2.50	13.40
Hordley	...	1.87	14.55
Boston	...	12.82	...
Cinchona Plantation	St. Andrew	2.67	20.68
New Haven Gap	...	...	...
Stony Hill Reformatory	...	7.11	15.60
Castleton Gardens	St. Mary	8.59	12.49
Dover	...	...	...
Quebec	...	...	...
Richmond	...	3.00	...
Port Maria	...	2.71	...
Gayle	...	4.95	13.94
Rio Hoe	St. Ann	...	13.07
Unity Valley	...	2.23	7.85
Moneague	...	4.02	...
Albion	...	...	7.88
Averham Park	...	3.60	...
Bradfield	...	...	7.67
Drax Hall	...	2.84	7.30
Saville	...	2.85	6.86
Llandovery	...	3.35	8.17
Richmond Estate	...	3.89	9.28
Means		4.17	11.78

## NORTHERN DIVISION.

OCTOBER.

		1890.   Average.	
		In.	In.
Home Castle	St. Ann	3.72	...
Richmond Pen	...	11.18	...
Colchis Pen	Trelawny	6.93	...
Mahogany Hall	...	4.51	5.02
Braco	...	2.07	4.81
Arcadia	...	3.27	...
Harmony Hall	...	2.23	4.14
Lancaster	...	3.02	5.16
Vale Royal	...	3.40	5.91
Hyde	...	4.57	7.59
Georgia	...	...	5.29
Steelfield	...	2.92	5.98
Oxford	...	4.85	...
Cambridge	...	3.32	4.85
Dry Valley	...	5.12	...
Lottery	...	3.82	6.12
Falmouth	...	3.44	...
Holland Pen	...	3.70	...
Golden Grove	...	6.60	6.66
Pembroke	...	...	5.17
Green Park	...	...	5.95
Phoenix	...	7.71	...
Tilston	...	9.75	6.69
Orange Valley	...	10.95	5.31
Kent	...	9.17	5.65
Dundee	...	6.52	5.70
Weston Favel	...	9.14	...
Gale's Valley	...	11.54	7.43
Greenwood	St. James	10.61	...
Bellfield	...	6.43	...
Guildsbro'	...	7.30	...
Spring Vale	...	...	8.62
Cinnamon Hall	...	...	...
Rose Hall	...	...	...
Running Gut	...	...	5.63
Leogan	...	...	...

## NORTHERN DIVISION, contd.

OCTOBER.

		1890.   Average.	
		In.	In.
Ironshore	St. James.	6.81	5.25
Providence	...	...	...
Montego Bay (Market)	...	...	...
Catherine Hall	...	11.43	6.73
Catherine Mount	...	8.98	7.67
Fairfield	...	11.83	...
Means		6.26	5.93

## WEST CENTRAL DIVISION.

OCTOBER.

		1890.   Average.	
		In.	In.
Linstead	St. Catherine	1.80	9.16
Cave Valley	St. Ann	6.88	10.41
Anpleton	St. Elizabeth	10.62	12.10
Windsor Pen	Trelawny	12.98	...
Maroon Town	St. James	12.81	...
Kepp	St. Elizabeth	10.73	11.30
Mount Edgecombe	Westmoreland	8.80	8.93
Windsor Forest	...	...	...
Woodstock	...	...	...
Struie	...	...	...
Kew Park	...	10.17	...
Chester Castle	Hanover	13.32	...
Copse	...	12.96	10.94
Kempshot	St. James	...	...
Anchovy	...	10.34	7.13
Wiltshire	...	9.67	7.90
Eden	...	9.61	...
Round Hill	Hanover	5.65	5.45
Cacoon Castle	...	8.62	8.11
Golden Grove	...	19.77	9.74
Flint River	...	4.89	...
Tryall	...	5.67	6.85
Sweet River	Westmoreland	...	...
Windsor (Sav.-la-Mar)	...	...	8.42
Kew	Hanover	7.90	...
Three Mile River	Westmoreland	7.70	...
George's Plain Estate	...	11.15	...
Pontabelle	...	...	...
Belle Isle	...	10.65	...
King's Valley	...	7.50	...
Orange Cove	Hanover	6.21	9.06
Abingdon	...	10.85	...
Means		9.06	9.01

## SOUTHERN DIVISION.

OCTOBER.

		1890.   Average.	
		In.	In.
Albion Hospital	St. Thomas	...	...
The Abbey	...	...	...
Halberstadt	St. Andrew	...	...
Woodford	...	9.25	...
Hope Plantation	St. Andrew	...	...
Hope Reservoirs	...	...	9.56
Cherry Garden	...	4.59	...
Constant Spring	...	...	...
Shortwood	...	4.42	...
Camperdown	St. Andrew.	2.93	...
King's House	...	...	12.19
Monaltrie	...	4.55	11.64
Public Works Office	Kingston	2.57	10.23
Plumb Point L. H.	...	1.62	9.96
Spanish Town	St. Catherine	3.87	8.52
Windsor Park	...	...	...
Hog Hole Pen	...	3.40	8.09

SOUTHERN DIVISION, *contd.*

OCTOBER.

		1890.   Average.	
		In.	In.
Headworks, R. C. C.	...	3.16	10.24
Old Harbour	...	3.07	...
Farm Plantation	Manchester	7.56	14.32
Stone's Hope	...	8.35	...
Brokenhurst Pen	...	6.22	...
Pepper	St. Elizabeth	7.15	10.07
Long Hill	...	8.16	8.85
Potsdam	...	8.73	...
Gilnock Hall	...	...	...
Santa Cruz Poor-house	...	13.62	...
Black River	...	...	9.32
Means		4.67	10.22

At the Plumb Point Light House the upper gauge is 68 feet above the lower; these gauges registered 1.86 and 1.62 inches respectively.

COMPARATIVE TABLE OF RAINFALL.  
(Based upon the "Average" Stations only.)

	OCTOBER.	
	1890.   Average	
	In.	In.
North Eastern Division	4.17	11.78
Northern "	6.26	5.93
West Central Division	9.06	9.01
Southern "	4.67	10.22
The Island	6.04	9.23

The largest fall, viz., 19.77 inches was recorded at Golden Grove, in the Parish of Hanover, and the smallest, 1.62 inches at the Plumb Point Light House.

The rainfall for the North Eastern and Southern Divisions shewed a deficiency of about one-half; the Northern and West Central Divisions recorded a very near approach to the average.

The fall for the month on the whole was about two-thirds the recorded average.

A shock of Earthquake was felt in this city at about 8.15 p.m. on the 30th.

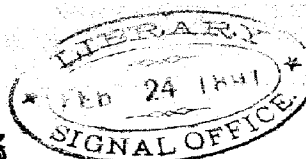
Miss A. C. Johnson reports that a shock of Earthquake was felt on Thursday, 30th October at 8.15 p.m. at Shortwood College, St. Andrew.

Mr. F. A. Jenoure also experienced a shock at Boston at 8.15 p.m. on the 30th.

A shock of Earthquake was also felt at Castleton Gardens at 8.15 p.m. on the 30th October.

J. F. BRENNAN.

Kingston, 17th November, 1890.



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JAMAICA.

DECEMBER 30, 1890.

No. 126

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# WEATHER REPORT

FOR THE MONTH OF

NOVEMBER, 1890,

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**Published by Authority.**

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J A M A I C A :  
GOVERNMENT PRINTING ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1890.

## METEOROLOGICAL RESULTS FOR NOVEMBER, 1890.

STATION.	ELEVATION.	MEANS FOR THE MONTH.									
		Pressure.		Temperature		Dew-point.		Vapour.		Humidity.	
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.
Kingston	ft. 60	in. 29.955	in. 29.896	° 73.7	° 83.5	° 67.5	° 70.8	in. 0.673	in. 0.754	81	66
King's House	400	...	...	...	...	...	...	...	...	...	...
Castleton Gardens	580	...	...	68.8	79.5	67.2	75.1	0.606	0.871	96	86
Cinchona Plantation	4,907	...	...	63.6	65.7	55.9	60.3	0.447	0.524	76	83

STATION.	MEANS FOR THE MONTH.					EXTREMES FOR THE MONTH.					TOTAL RAINFALL.
	Temperature.			Wind.		Temperature.					
	Max.	Min.	Range.	From.	Miles daily.	Max.	Date.	Min.	Date.	Range.	
	°	°	°			°		°		°	inch.
Kingston	88.1	71.4	16.7	S.E.	55.1	91.6	20th	68.8	29th	22.8	2.73
King's House	...	...	...	...	...	...	...	...	...	...	...
Castleton Gardens	79.4	69.4	10.0	...	...	84	10th	64.0	11th	20.0	15.72
Cinchona Plantation	74.2	54.9	19.3	...	56.5	82	13th	40.0	15th	42.0	6.50

NOTE.—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°, that of Kingston being further reduced to the Sea-level. The Thermometers are similarly exposed at all the above Stations; their readings have all been corrected.

## BLUE MOUNTAIN PEAK.

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observer's Initials.
		Max.	Min.				
1890.		°	°	°	in.		
January 4th	2.15 p.m.	66	39	50.5	52.10	Misty, breeze N.E.	A. T.
February 2nd	3 p.m.	66	40	54	19.30	Fine and bright, calm.	B. S. G.
March 1st	3.15 p.m.	64	39	57	16.90	Fine, warm and calm.	B. S. G.
March 29th	3.45 p.m.	71	49.5	54	18.92	Fine, clear, light breeze.	B. S. G.
May 3rd	2.30 p.m.	67	38	56	19.40	Bright sun, clear	B. S. G.
May 31st	1.45 p.m.	66.5	45	60	4.10	Heavy rain, light wind.	B. S. G.
June 24th	3.00 p.m.	63.0	45.5	56	2.90	Cloudy on all sides but warm.	B. S. G.
July 17th	12 Noon	62	43	55	5.00	Cloudy and little rain.	W. F.
August 2nd	2.45 p.m.	65	45	54	1.68	Fine, light breeze.	B. S. G.
October 5th	3.10 p.m.	72	46	55	5.00	Light breeze, clear and bright.	B. S. G.
October 26th	3.10 p.m.	74	45.5	70	3.44	Warm and cloudy.	W. B.
October 29th	2.30 p.m.	70.5	46.5	61	...	Bright and clear, no sun.	B. S. G.

## THE HEALTH OF KINGSTON.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the month for a few years past:—

	NOVEMBER.	
	1890.	Average.
Infantile diseases not otherwise specified	5	14
Lung diseases	19	14
Fever	9	8
Dysentery and Diarrhoea	4	3
Various	34	55
Total	71	94

## RAINFALL FOR NOVEMBER, 1890.

The first columns contain all the Rainfall Returns sent in for publication up to the date of this report; the second columns contain the corresponding average Rainfall according to the Tables published in October, 1888, as Nos. 31 and 33 of the present series of Reports, and to an unpublished Supplementary Table of the average Rainfall at certain places where gauges have been registered for at least five years. In obtaining the mean Rainfall for the month from the numbers in the first columns, only those Stations are considered for which the average Rainfall has been given in the second columns; so that the results of these two columns are directly comparable. These results are more clearly shown in the Comparative Table at the end of these Rainfall Returns:—

## NORTH-EASTERN DIVISION.

NOVEMBER.

		1890.   Average.	
		In.	In.
Morant Point L. H.	St. Thomas	10.66	8.72
Hordley	...	...	10.19
Boston	...	...	...
Cinchona Plantation	St. Andrew	6.50	13.66
New Haven Gap	...	...	...
Stony Hill Reformatory	...	5.34	8.65
Castleton Gardens	St. Mary	15.72	10.68
Dover	...	...	...
Quebec	...	...	...
Richmond	...	6.49	...
Port Maria	...	7.93	...
Gayle	...	12.75	...
Rio Hoe	St. Ann	12.16	8.83
Unity Valley	...	6.18	7.59
Moneague	...	6.51	...
Albion	...	11.14	10.23
Averham Park	...	9.48	...
Bradfield	...	9.00	...
Drax Hall	...	...	11.06
Seville	...	10.75	9.31
Llandoverly	...	8.25	7.51
Richmond Estate	...	9.72	8.45
Means		9.64	9.36

## NORTHERN DIVISION.

NOVEMBER.

		1890.   Average.	
		In.	In.
Home Castle	St. Ann	...	...
Richmond Pen	...	...	...
Colchis Pen	Trelawny	...	...
Mahogany Hall	...	8.28	4.19
Braco	...	...	6.13
Arcadia	...	...	...
Harmony Hall	...	5.00	...
Lancaster	...	...	6.76
Vale Royal	...	...	7.05
Hyde	...	...	7.52
Georgia	...	...	6.10
Steelfield	...	...	5.74
Oxford	...	...	...
Cambridge	...	...	4.64
Dry Valley	...	4.30	...
Lottery	...	...	...
Falmouth	...	4.74	4.93
Holland Pen	...	...	...
Golden Grove	...	3.45	5.71
Pembroke	...	...	5.29
Green Park	...	...	6.15
Phoenix	...	3.00	...
Tilston	...	2.60	5.04
Orange Valley	...	3.45	5.24
Kent	...	2.71	4.00
Dundee	...	3.56	7.50
Weston Favel	...	7.70	...
Gale's Valley	...	2.40	4.73
Greenwood	St. James	3.30	...
Bellfield	...	2.85	...
Guilsbro'	...	4.50	...
Spring Vale	...	...	5.03
Cinnamon Hall	...	...	...
Rose Hall	...	...	...
Running Gut	...	1.56	...
Leogan	...	5.90	...

## NORTHERN DIVISION, contd.

NOVEMBER.

		1890.   Average.	
		In.	In.
Ironshore	St. James.	1.65	3.20
Providence	...	...	...
Montego Bay (Market)	...	...	...
Catherine Hall	...	3.63	3.40
Catherine Mount	...	3.20	4.16
Fairfield	...	3.06	...
Means		3.61	4.74

## WEST CENTRAL DIVISION.

NOVEMBER.

		1890.   Average.	
		In.	In.
Linstead	St. Catherine	7.05	4.89
Cave Valley	St. Ann	...	5.26
Appleton	St. Elizabeth	8.69	6.02
Windsor Pen	Trelawny	6.70	...
Maroon Town	St. James	...	...
Kepp	St. Elizabeth	9.86	5.93
Mount Edgecombe	Westmoreland	7.12	4.72
Windsor Forest	...	...	...
Woodstock	...	10.16	...
Struie	...	9.60	...
Kew Park	...	7.88	...
Chester Castle	Hanover	8.87	...
Copse	...	1.78	7.61
Kempshot	St. James	...	...
Anchovy	...	3.39	3.77
Wiltshire	...	2.27	5.58
Eden	...	3.73	...
Round Hill	Hanover	1.87	3.50
Cacoon Castle	...	3.13	5.89
Golden Grove	...	9.31	5.89
Flint River	...	1.43	...
Tryall	...	1.89	3.64
Sweet River	Westmoreland	4.30	...
Windsor (Sav.-la-Mar)	...	3.77	4.52
Kew	Hanover	2.99	...
Three Mile River	Westmoreland	4.30	...
George's Plain Estate	...	4.52	...
Fontabelle	...	...	...
Belle Isle	...	8.85	...
King's Valley	...	4.92	...
Orange Cove	Hanover	...	...
Abingdon	...	6.25	...
Means		5.01	5.16

## SOUTHERN DIVISION.

NOVEMBER.

		1890.   Average.	
		In.	In.
Albion Hospital	St. Thomas	...	...
The Abbey	...	...	...
Halberstadt	St. Andrew	...	...
Woodford	...	4.17	...
Hope Plantation	St. Andrew	...	...
Hope Reservoirs	...	...	...
Cherry Garden	...	...	...
Constant Spring	...	...	...
Shortwood	...	4.10	...
Camperdown	St. Andrew.	4.24	...
King's House	...	...	2.44
Monaltrie	...	4.06	5.71
Public Works Office	Kingston	4.15	3.90
Plumb Point L. H.	...	2.77	3.50
Spanish Town	St. Catherine	3.19	2.56
Windsor Park	...	...	...
Hog Hole Pen	...	4.33	3.52



SOUTHERN DIVISION, *contd.*

## NOVEMBER.

		1890.   Average.	
		In.	In.
Headworks, R. C. C.	...	4.66	5.00
Old Harbour	...	5.15	...
Farm Plantation	Manchester	4.75	5.40
Stone's Hope	...	4.54	...
Brokenhurst Pen	...	...	...
Pepper	St. Elizabeth	3.20	5.09
Long Hill	...	4.36	3.83
Potsdam	...	4.49	...
Gilnock Hall	...	...	...
Santa Cruz Poor-house	...	8.15	...
Black River	...	...	5.43
Means		3.94	4.28

At the Plumb Point Light House the upper gauge is 68 feet above the lower; these gauges registered 2.25 and 2.77 inches respectively.

COMPARATIVE TABLE OF RAINFALL.  
(Based upon the "Average" Stations only.)

	NOVEMBER.	
	1890.   Average.	
	In.	In.
North Eastern Division	9.64	9.36
Northern "	3.61	4.74
West Central Division	5.01	5.16
Southern "	3.94	4.28
The Island	5.55	5.88

The largest fall, viz., 15.72 inches was recorded at Castleton Gardens, in the Parish of St. Mary, and the smallest, 1.43 inches at Flint River, in the Parish of Hanover.

The Rainfall for the Month in each Division of the Island shewed a near approach to average.

Miss A. C. Johnson reports that a sharp shock of earthquake was felt at Shortwood College on November 11th, at 1.40 p.m.

A shock of earthquake was also felt at Castleton Gardens on the 11th at 2.40 p.m.

Fine Norther set in at the close of the month.

J. F. BRENNAN.

Kingston, 19th December, 1890.



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# WEATHER REPORT

FOR THE MONTH OF

DECEMBER, 1890.

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GOVERNMENT PRINTING ESTABLISHMENT, 79 DUKE STREET, KINGSTON.  
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## METEOROLOGICAL RESULTS FOR DECEMBER, 1890.

STATION.	ELEVATION.	MEANS FOR THE MONTH.									
		Pressure.		Temperature.		Dew-point.		Vapour.		Humidity.	
		7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.
Kingston	ft. 60	in. 30.035	in. 29.965	° 70.6	° 83.2	° 64.6	° 67.9	in. 0.609	in. 0.682	81	60
King's House	400	...	...	69.0	81.5	64.0	65.5	0.596	0.628	84	60
Castleton Gardens	580	...	...	67.1	75.3	66.2	71.0	0.644	0.759	97	87
Cinchona Plantation	4,907	...	...	60.2	60.8	56.6	59.7	0.459	0.512	88	96

STATION.	MEANS FOR THE MONTH.					EXTREMES FOR THE MONTH.					TOTAL RAINFALL.
	Temperature.			Wind.		Temperature.					
	Max.	Min.	Range.	From.	Miles daily.	Max.	Date.	Min.	Date.	Range.	
	°	°	°			°		°		°	inch.
Kingston	86.6	68.5	18.1	Var.	45.1	88.9	12th*	63.3	2nd	25.6	0.31
King's House	82.4	65.3	17.1	...	...	87.0	24th	61.0	16th	26.0	...
Castleton Gardens	76.9	65.9	10.0	...	...	80.0	4th	57.0	2nd	23.0	12.22
Cinchona Plantation	66.3	55.8	10.5	...	...	71.0	13th	49.0	9th	22.0	6.52

\* and 1 other day.

NOTE.—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°, that of Kingston being further reduced to the Sea-level. The Thermometers are similarly exposed at all the above Stations; their readings have all been corrected.

## BLUE MOUNTAIN PEAK.

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observer's Initials.
		Max.	Min.				
1890.		°	°	°	in.		
January 4th	2.15 p.m.	66	39	50.5	52.10	Misty, breeze N.E.	A. T.
February 2nd	3 p.m.	66	40	54	19.30	Fine and bright, calm.	B. S. G.
March 1st	3.15 p.m.	64	39	57	16.90	Fine, warm and calm.	B. S. G.
March 29th	3.45 p.m.	71	49.5	54	18.92	Fine, clear, light breeze.	B. S. G.
May 3rd	2.30 p.m.	67	38	56	19.40	Bright sun, clear	B. S. G.
May 31st	1.45 p.m.	66.5	45	60	4.10	Heavy rain, light wind.	B. S. G.
June 24th	3.00 p.m.	63.0	45.5	56	2.90	Cloudy on all sides but warm.	B. S. G.
July 17th	12 Noon	62	42	55	5.00	Cloudy and little rain.	W. F.
August 2nd	2.45 p.m.	65	45	54	1.68	Fine, light breeze.	B. S. G.
October 5th	3.10 p.m.	72	46	55	5.00	Light breeze, clear and bright.	B. S. G.
October 26th	3.10 p.m.	74	45.5	70	3.44	Warm and cloudy.	W. B.
October 29th	2.30 p.m.	70.5	46.5	61	...	Bright and clear, no sun.	B. S. G.

## THE HEALTH OF KINGSTON.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the month for a few years past:—

	DECEMBER.	
	1890.	Average.
Infantile diseases not otherwise specified	17	17
Lung diseases	23	14
Fever	6	10
Dysentery and Diarrhoea	4	5
Various	42	55
Total	92	101

## RAINFALL FOR DECEMBER, 1890.

The first columns contain all the Rainfall Returns sent in for publication up to the date of this report; the second columns contain the corresponding average Rainfall according to the Tables published in October, 1883, as Nos. 31 and 33 of the present series of Reports, and to an unpublished Supplementary Table of the average Rainfall at certain places where gauges have been registered for at least five years. In obtaining the mean Rainfall for the month from the numbers in the first columns, only those Stations are considered for which the average Rainfall has been given in the second columns; so that the results of these two columns are directly comparable. These results are more clearly shown in the Comparative Table at the end of these Rainfall Returns:—

## NORTH-EASTERN DIVISION.

## DECEMBER.

		1890.   Average.	
		In.	In.
Morant Point L. H.	St. Thomas	3.53	6.78
Hordley	...	8.25	8.57
Boston	...	...	...
Cinchona Plantation	St. Andrew	6.52	13.83
New Haven Gap	...	...	...
Stony Hill Reformatory	...	2.78	3.71
Castleton Gardens	St. Mary	12.22	13.07
Dover	...	...	...
Quebec	...	...	...
Richmond	...	6.64	...
Port Maria	...	8.52	...
Gayle	...	13.10	...
Rio Hoe	St. Ann	9.93	11.49
Unity Valley	...	6.04	10.74
Moneague	...	6.17	...
Albion	...	7.55	8.07
Averham Park	...	13.43	...
Bradfield	...	6.68	10.91
Drax Hall	...	9.36	8.67
Seville	...	...	8.10
Llandovery	...	...	8.47
Richmond Estate	...	...	7.14
Means		6.79	9.57

## NORTHERN DIVISION.

## DECEMBER.

		1890.   Average.	
		In.	In.
Home Castle	St. Ann	8.10	...
Richmond Pen	...	8.30	...
Colchia Pen	Trelawny	5.49	...
Mahogany Hall	...	5.81	3.76
Braco	...	6.29	7.20
Arcadia	...	6.22	...
Harmony Hall	...	6.84	7.24
Lancaster	...	6.92	7.57
Vale Royal	...	7.37	9.29
Hyde	...	6.25	8.08
Georgia	...	...	8.41
Steelfield	...	4.80	7.99
Oxford	...	5.22	...
Cambridge	...	5.92	6.01
Dry Valley	...	3.93	...
Lottery	...	3.95	5.83
Falmouth	...	12.40	...
Holland Pen	...	6.88	...
Golden Grove	...	5.30	5.33
Pembroke	...	...	5.26
Green Park	...	7.70	5.87
Phoenix	...	8.38	...
Thilston	...	7.35	5.67
Orange Valley	...	12.90	6.99
Kent	...	7.84	4.57
Dundee	...	8.50	6.46
Weston Favel	...	...	...
Gale's Valley	...	8.40	5.60
Greenwood	St. James	10.50	...
Bellfield	...	...	...
Gillsbro'	...	7.55	...
Spring Vale	...	6.77	6.67
Cinnamon Hall	...	8.14	...
Rose Hall	...	7.00	...
Running Gut	...	8.90	5.71
Beogan	...	...	...

## NORTHERN DIVISION, contd.

## DECEMBER.

		1890.   Average.	
		In.	In.
Ironshore	St. James.	9.25	3.18
Providence	...	...	...
Montego Bay (Market)	...	7.54	...
Catherine Hall	...	8.10	3.32
Catherine Mount	...	8.35	6.74
Fairfield	...	5.53	...
Means		7.31	6.10

## WEST CENTRAL DIVISION.

## DECEMBER.

		1890.   Average.	
		In.	In.
Linstead	St. Catherine	1.53	2.44
Cave Valley	St. Ann	1.02	2.75
Anpleton	St. Elizabeth	3.44	3.34
Windsor Pen	Trelawny	6.26	...
Maroon Town	St. James	5.26	...
Kepp	St. Elizabeth	1.81	2.98
Mount Edgecombe	Westmoreland	0.63	3.23
Windsor Forest	...	...	...
Woodstock	...	8.39	...
Struie	...	...	...
Kew Park	...	1.78	...
Chester Castle	Hanover	2.97	...
Copse	...	7.28	4.67
Kempshot	St. James	8.33	...
Anchovy	...	4.97	2.48
Wilshire	...	...	2.81
Eden	...	7.07	...
Round Hill	Hanover	3.75	1.96
Cacoon Castle	...	6.11	6.76
Golden Grove	...	9.64	2.93
Flint River	...	4.85	...
Tryall	...	5.26	2.08
Sweet River	Westmoreland	5.00	...
Windsor (Sav.-la-Mar)	...	4.29	2.27
Kew	Hanover	...	...
Three Mile River	Westmoreland	2.00	...
George's Plain Estate	...	...	...
Fontabelle	...	...	...
Belle Isle	...	2.60	...
King's Valley	...	3.20	...
Orange Cove	Hanover	5.49	4.06
Abingdon	...	0.60	...
Means		4.25	3.23

## SOUTHERN DIVISION.

## DECEMBER.

		1890.   Average.	
		In.	In.
Albion Hospital	St. Thomas	...	...
The Abbey	...	3.60	...
Halberstadt	St. Andrew	...	...
Woodford	...	6.13	...
Hope Plantation	St. Andrew	...	...
Hope Reservoirs	...	...	...
Cherry Garden	...	1.97	...
Constant Spring	...	...	...
Shortwood	...	...	...
Camperdown	St. Andrew.	1.08	...
King's House	...	...	0.37
Monaltrie	...	1.12	2.37
Public Works Office	Kingston	0.14	2.33
Plumb Point L. H.	...	0.03	1.57
Spanish Town	St. Catherine	0.33	1.66
Windsor Park	...	...	...
Hog Hole Pen	...	0.65	2.06

SOUTHERN DIVISION, *contd.*

## DECEMBER.

		1890.   Average.	
		In.	In.
Headworks, R. C. C.	...	0.70	1.76
Old Harbour	...	0.94	...
Farm Plantation	Manchester	1.85	2.46
Stone's Hope	...	2.56	...
Brokenhurst Pen	...	2.66	...
Pepper	St. Elizabeth	1.90	1.90
Long Hill	...	3.74	3.40
Potsdam	...	1.11	...
Gilnock Hall	...	...	...
Santa Cruz Poor-house	...	3.19	...
Black River	...	...	2.29
Means		1.15	2.16

At the Plumb Point Light House the upper gauge is 68 feet above the lower; these gauges registered 0.02 and 0.03 of an inch respectively.

## COMPARATIVE TABLE OF RAINFALL.

(Based upon the "Average" Stations only.)

		DECEMBER.	
		1890.   Average.	
		In.	In.
North Eastern Division		6.79	9.57
Northern	"	7.31	6.10
West Central Division		4.25	3.23
Southern	"	1.15	2.16
The Island		4.87	5.26

The largest fall viz., 13.43 inches was recorded at Averham Park, in the Parish of St. Ann, and the smallest, 0.03 of an inch at Plumb Point Light House.

The Rainfall for the Month for the whole Island shewed a near approach to the average.

Fine Northerly winds were felt in Kingston on the 2nd, 3rd, and 18th, of the month.

The following Table gives the Island Rainfall actually recorded in 1890, as compared with the average Rainfall:—

## ISLAND RAINFALL.

	Rainfall recorded.	Rainfall Average.
	In.	In.
1890—January	5.26	4.32
February	2.16	2.60
March	4.96	3.24
April	2.89	3.76
May	4.92	8.64
June	2.89	5.53
July	2.46	4.50
August	6.39	6.84
September	4.46	7.02
October	6.04	8.95
November	5.55	6.00
December	4.87	5.16
The Year	52.76	66.56

The average Rainfall for the whole Island for the year 1890 as will be seen was very deficient. The Rainfall has been almost without exception less than the average in each month of the year, and shewing a difference of nearly 17 inches with the previous year.

## KINGSTON, JAMAICA—MEAN RESULTS FOR THE YEAR 1890.—ELEVATION 60 FEET.

Month.	Means for the Month.												
	Pressure.		Temperature.					Dewpoint.		Vapour.		Humidity.	
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	7 a.m.	3 p.m.
	In.	In.	°	°	°	°	°	°	°	In.	In.	%	%
January	30.056	29.993	67.5	85.0	88.9	64.5	24.4	63.1	68.5	0.678	0.697	86	58
February	30.063	29.992	67.4	83.2	86.9	64.2	22.7	62.9	68.9	0.674	0.706	86	62
March	30.032	29.981	70.1	81.1	85.5	66.8	18.7	64.5	68.0	0.697	0.684	82	65
April	30.073	30.015	71.2	83.1	86.3	67.9	18.4	65.3	68.4	0.694	0.694	82	61
May	30.025	29.971	75.4	83.4	87.2	71.0	16.2	67.8	71.6	0.680	0.774	77	68
June	30.034	30.003	76.6	86.6	89.1	73.0	16.1	67.8	71.7	0.680	0.777	74	62
July	30.001	29.957	75.9	85.7	89.1	72.6	16.5	68.7	71.2	0.701	0.764	78	62
August	30.045	29.997	76.8	86.5	89.5	72.3	17.2	68.0	72.7	0.684	0.804	74	64
September	29.969	29.929	75.8	84.0	89.0	72.4	16.6	69.2	72.6	0.713	0.801	80	69
October	29.965	29.902	75.8	84.6	88.3	72.5	15.8	68.3	72.9	0.692	0.810	78	68
November	29.955	29.896	73.7	83.5	88.1	71.4	16.7	67.5	70.8	0.673	0.754	81	66
December	30.035	29.965	70.6	83.2	86.6	68.5	18.1	64.6	67.9	0.609	0.682	81	60
Means.	30.024	29.967	73.1	84.1	87.9	69.8	18.1	66.5	70.4	0.651	0.745	80	64

The barometric pressure is the reading of the barometer corrected for instrumental error and reduced to 32° and sea level.

	Means for the Month.				Extremes for the Month.					Total Rainfall	REMARKS.
	Cloud Percentage.		Wind.		Temperature.						
	7 a.m.	3 p.m.	From	Miles Daily.	Max.	Date.	Min.	Date.	Range.		
January ...	25	39	S.	31.3	90.9	12	62.0	14	28.9	In. 0.34	Fine and Dry.
February ...	20	34	S.E.	40.5	89.1	25	60.2	4	28.9	0.45	Fair.
March ...	24	51	S.E.	51.5	89.3	24	61.4	14	27.9	3.27	Fair.
April ...	29	49	S.E.	43.7	90.3	20	65.0	25	25.3	0.26	Fair.
May ...	35	71	S.E.	87.0	89.2	15	67.5	2	21.7	1.22	Fair.
June ...	27	43	S.E.	111.0	91.6	13	70.3	18	21.3	0.44	Fair.
July ...	45	69	S.E.	97.5	94.4	21	68.6	1	25.8	0.34	Fair and Dry.
August ...	55	81	S.E.	75.3	92.3	15	69.3	4	23.0	5.23	Fair—fine showers on the 22nd and
September ...	48	85	S.E.	54.1	91.3	30	70.6	13	20.7	3.04	Fair—light showers. [Cloudy.]
October ...	66	74	S.E.	52.1	92.5	7	70.2	18	22.3	2.41	Fine—light shock of Earthquake on
November ...	55	88	Var.	55.1	91.6	21	68.8	29	22.8	2.73	Fine, Northerly on 30th. [30th.]
December ...	29	60	Var.	45.1	88.9	12	63.3	2	25.6	0.31	Fine Northerly during month.
Total Means.	37	62	S.E.	62.0	90.9		63.4		24.5	20.04	

J. F. BRENNAN,  
Kingston, 20th January, 1891.